JADE

GSM
Service Support
Level 3 Authorized

Level 3
Training Slides
06.04.00

Marketing Information

- **Market Name: P7689 Flat and P7789 Flip**
- **Performance Product**
- **Branded with Timeport**
- **To Bridge ‘gap’ between Leap II and Panther**
- **Tri Band**

Jade / Leap Differences

- Different Form Factor and ID
- Jade uses 15mm speaker whereas Leap uses 20mm
- Larger Display 96 X 64 compared to 96 x 54
- Jade has new Smart card interface capability using new PCB .
- New PCB will also house vibrator pads and RTC battery
- Jade supports new ‘slim’ LI_Ion Dao Battery

Jade / Leap Differences

- Jade has shorter antenna that will match rear housing
- Jade will be made available in 4 colours
- Jade has 4Mbit SRAM with comparison to Leap 2Mbit
- Jade uses new EL blue LCD back lighting
- For the Flipped version, Jade uses Hall effect sensor instead of mechanical switch.

Mechanical Information

- New Form Factor
- Larger 96 X 54 Display than Leap II
- Flipped and Flat units
- Metallic Silver / Aluminium / Graphite and Titanium
- Gray Rear Housing
- Shorter, Grey stubby antenna

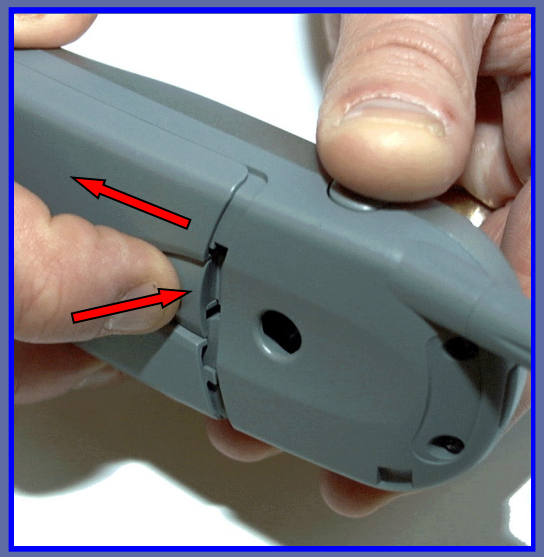
Mechanical Overview

- Battery Door similar to Kramer
- Belt clip, not holster as Kramer
- 4 types of battery door, for:
  - Dao Extra slim battery
  - LSQ6 Slim Battery
  - LSQ8 Large Battery
  - LSQ6 Battery with accessory to smart card
    - Lanyard attachment loop

Mechanical Overview

- Lens will show Timeport logo.
- Keypads coloured as per front housing with rocker key for scroll functions.
- Keypads for English / Standard CKE and CKE Taiwan.
- Internal Headset.
- Chromed keys

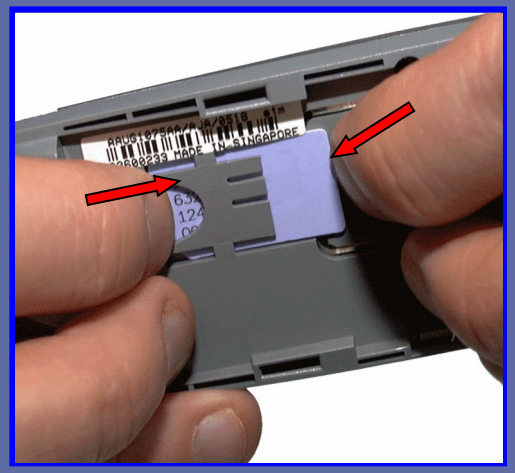
Jade Disassembly



1. Remove battery door by pressing down on clip and sliding back.

2. Remove battery by pushing and lifting at the same time.

Jade Disassembly



3. Press down on Panel at top of SIM and then push SIM from bottom upwards
cover to the left, then remove SIM card.

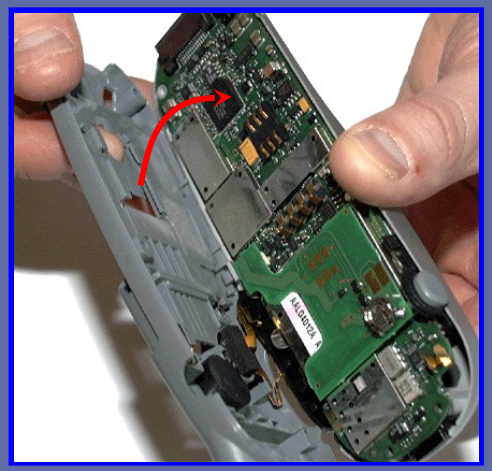
4. Remove Escutcheon from rear of unit.

Jade Disassembly

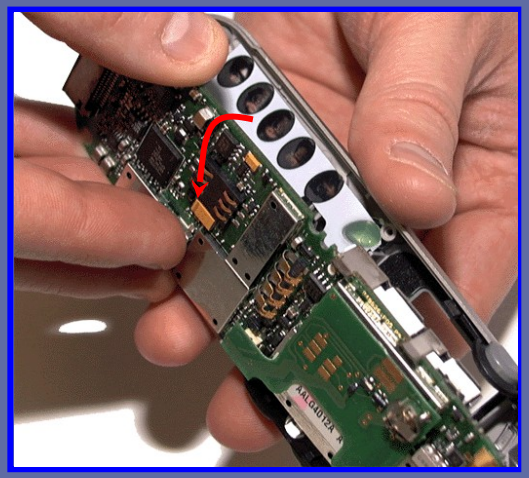
5. Unscrew antenna (Anti – Clockwise)

6. Unscrew all of the 6 screws.

Jade Disassembly

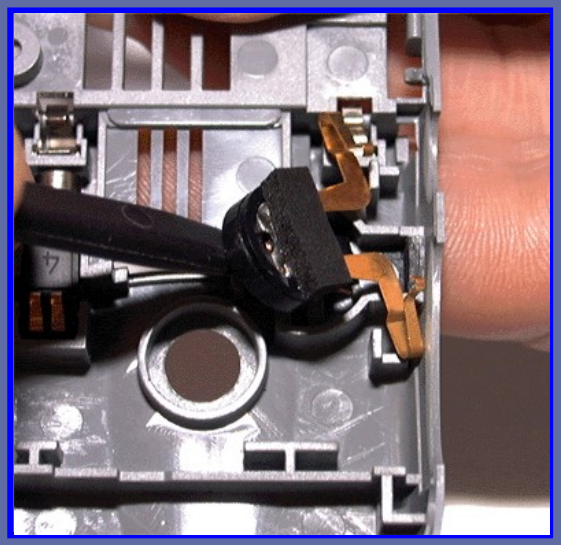


7. Remove the rear from the front housing, opening from the VA button side.

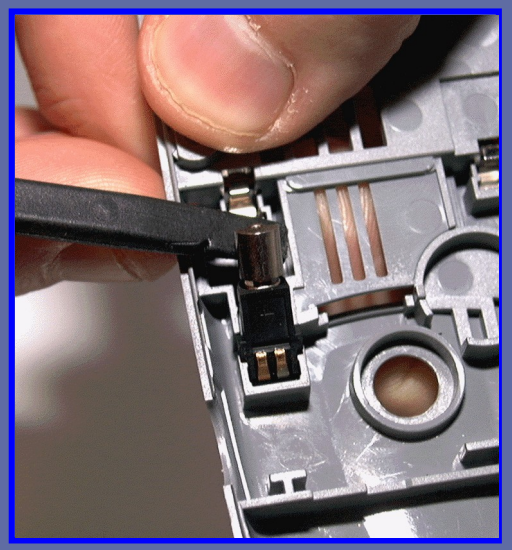


8. Levering from the side opposite the headset socket, carefully prize PCB from Front Housing.

Jade Disassembly



9. Remove Alert speaker from rear housing



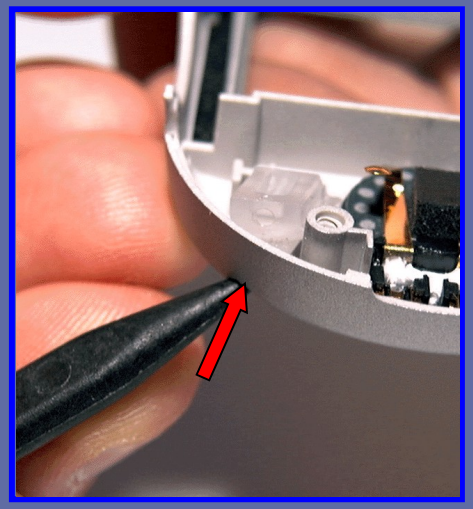
10. Remove vibrator from rear housing

Jade Disassembly

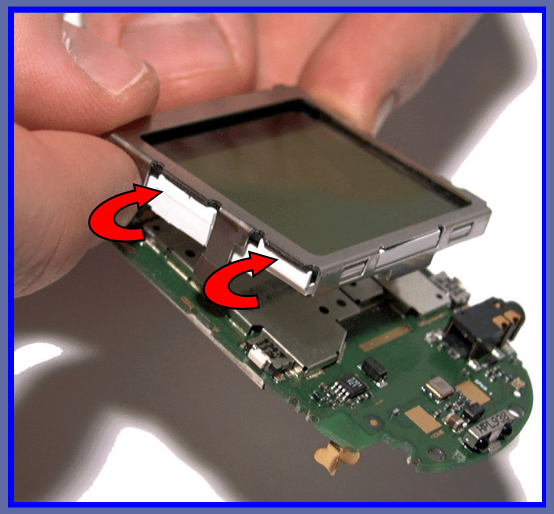
13. Remove keypad from front housing

14.Remove volume switches from front housing.

Jade Disassembly



15. Carefully press down on Service Indicator, if it gets damaged / scratched during this process, replace.



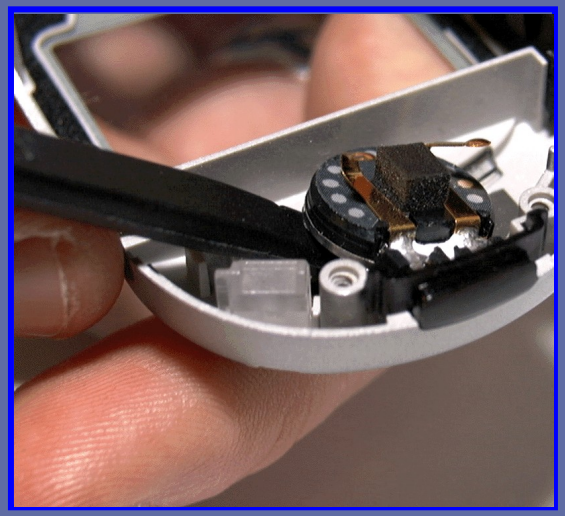
16. Unclip the 4 retaining catches remove the display module

Jade Disassembly

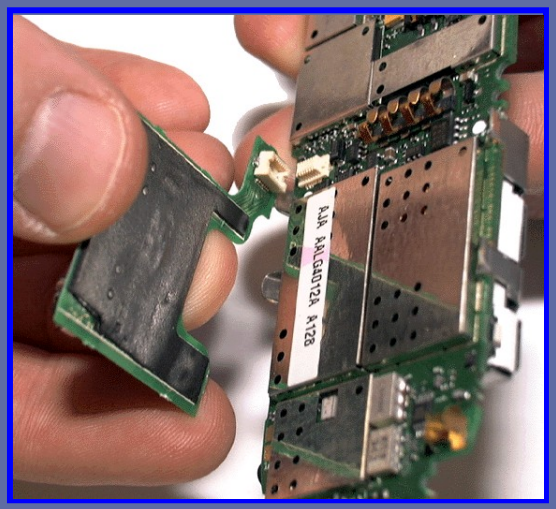
17. Remove Infra- Red port cover by lifting upwards

18. Remove Microphone from front housing

Jade Disassembly



19. Carefully prise speaker from front housing. Do not refit



20. Remove RTC Battery board from main PCB. (Ensure this board is kept parallel to the main board to protect the connector)

Electrical Performance

Volume (cc)	Weight (grams)	Talk Time (Mins)	Standby Time (Hours)	With Battery
98cc	97g	60 - 95	20 - 50	Dao 550 mAh Li ion
102cc	100g	150 - 210	75 - 125	LSQ6 600mAh LiIon
113cc	120g	240 - 330	130 - 200	LSQ8 1100 mAh LiIon

Electrical Performance

- SIM Toolkit.(STK 2.4)
- Enhanced Infrared Data link
- 3 Pin RS232 connection.
- PIM _ Personal Information Manager – basic diary function
- Speaker Dependant Voice recognition

Electrical Performance

- Vibracall™
- Voicenotes™ Alarmed with selective erase – 2 minutes
- WAP 1.1. compliant
- Datebook
- Answering Machine
- Silent Answer
- Calling Name Presentation
- Display Animation
- Scheduled Call Divert

Electrical Performance

- Concatenated SMS
- Smart Card support – E- Commerce
- Blue Backlights
- Chromed Keypad for OK and C Keys, chrome rocker MENU key and all other keys, film type with transparent numbering.
- New Ringer Tones
- Programmable Ringer Tones
- Enhanced Chinese Key entry
- New Games –

  Brick

  Baccarat

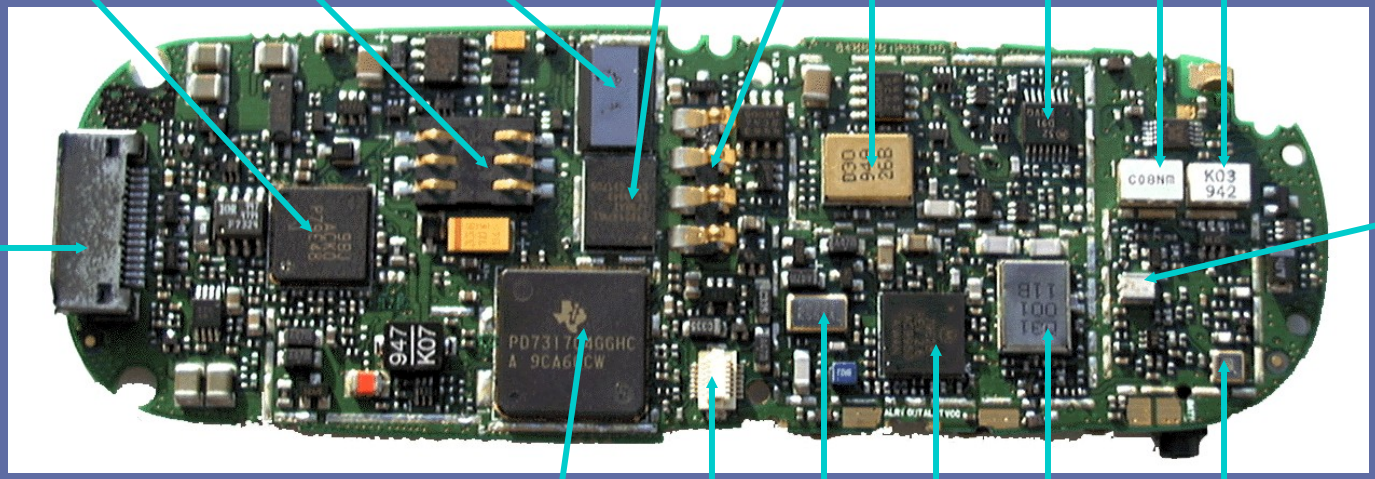
  Tower of Hanoi

Electrical Performance

- Using the Whitecap Chipset lower voltage technology this offers good standby and talk times
- Extended GSM channels
- Tri-Codec allowing Full Rate / Half Rate / Enhanced Full Rate modes of transmission.
- Smart card contacts are placed on the new PCB for future a future Jade product.

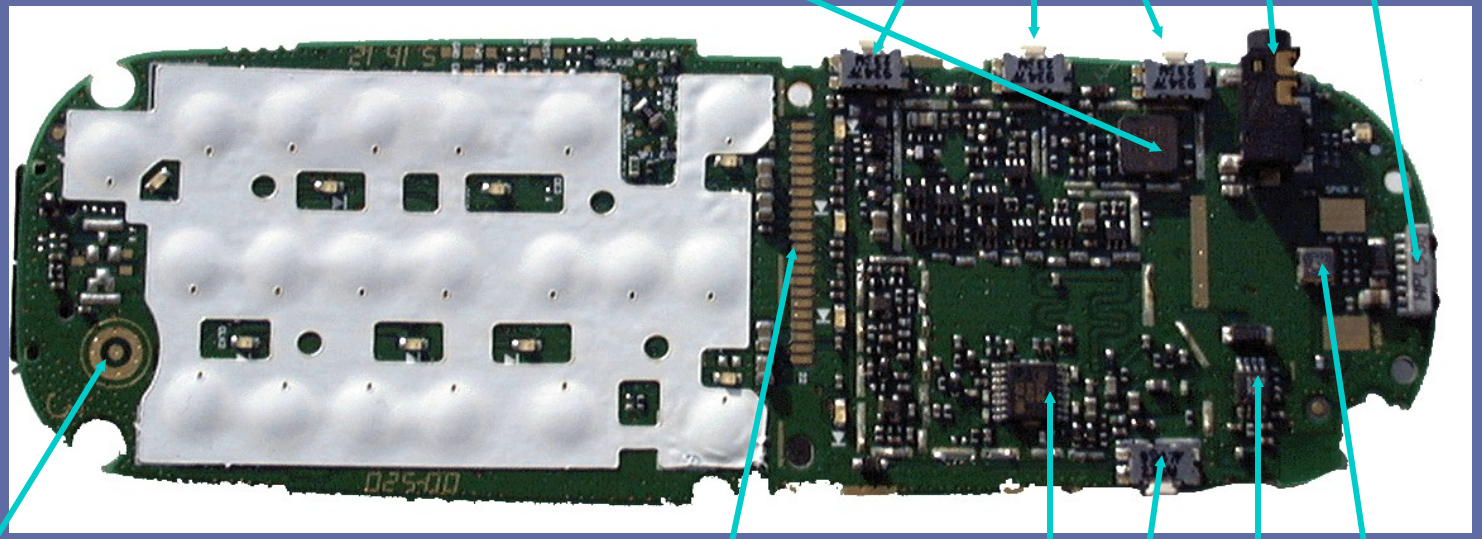
Board Layout

Bottom side



Board Layout

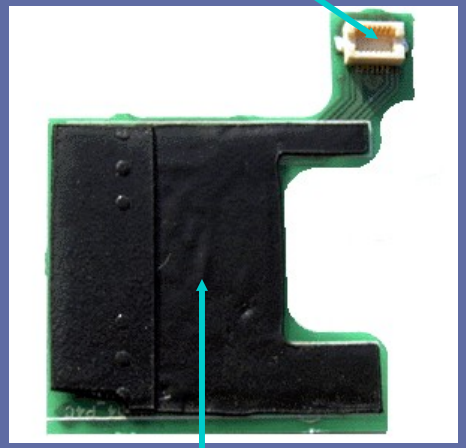
Top Side



Board Layout

Ancillary

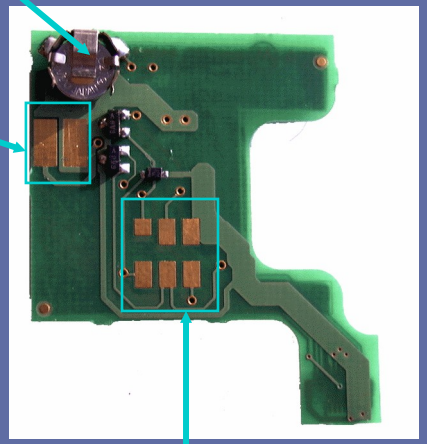
Ancillary Connector



Insulator

RTC Battery

Vibrator Contacts



Smart Card Contact Not Used